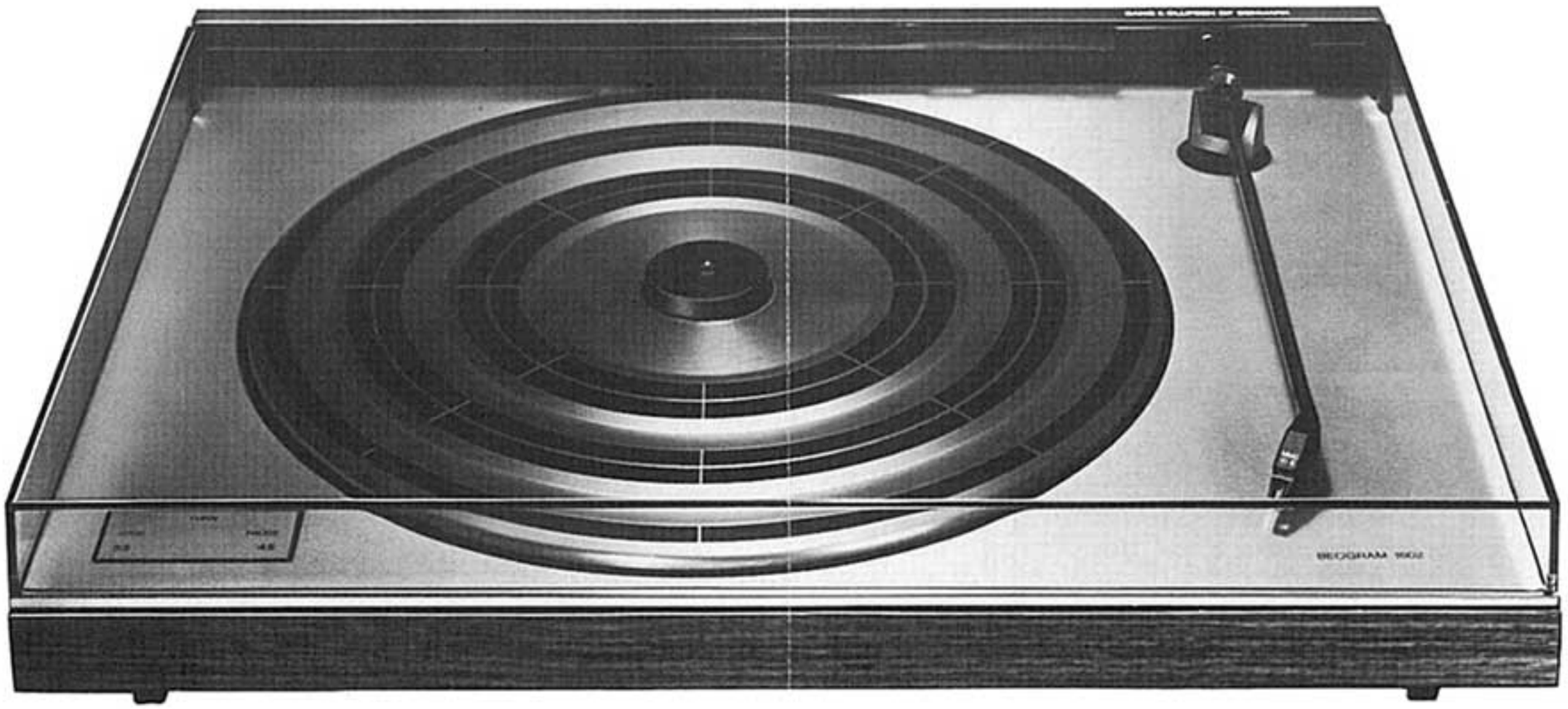
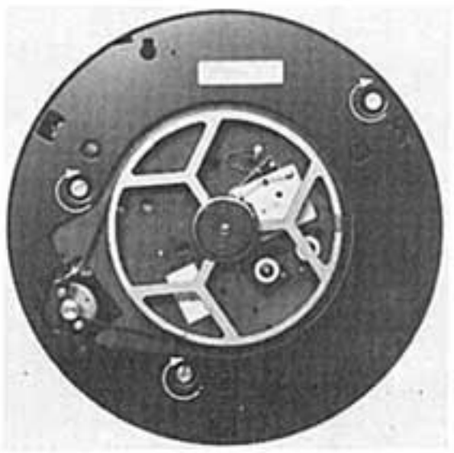
BEOGRAM 1602



WARNING: To prevent fire or shock hazard, do not expose this appliance to rain or moisture.

Assembly of the Beogram
Turn the three transit screws clockwise as far as they will go.



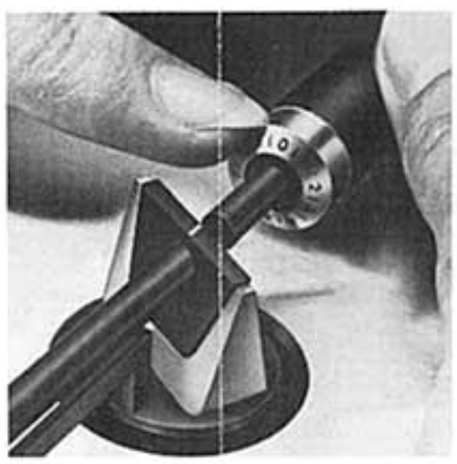
Put the platter down on the turntable. If you subsequently have to take off the turntable, the easiest way to do this is to first lift the record spindle and then put your fingers in under the platter rim.

Keep the carton and packing for possible subsequent transport of your record player.

Space requirements
Allow a free height of at least 16½ inches to enable the dust cover to be opened fully.

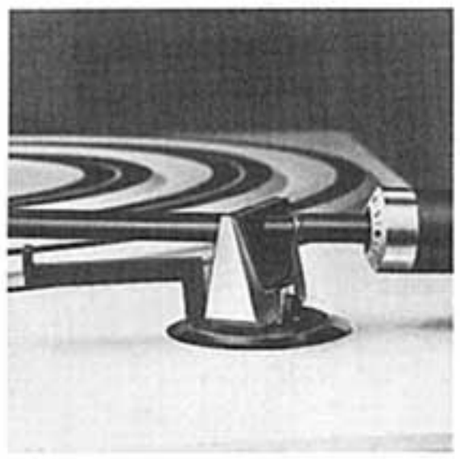
Connecting to an amplifier or Receiver
Your Beogram has a cable which is fitted with 2 pin plugs marked "L" left and "R" right, or colored grey for left and black for right channel.
Inset these plugs into the low-impedance phono jacks of your amplifier or receiver. Attach the black ground lead to the ground terminal on your amplifier or receiver.

Power connection
The Beogram is designed for operation on 120 volts, 60 Hz. It will operate on voltages between 110 and 130 volts.

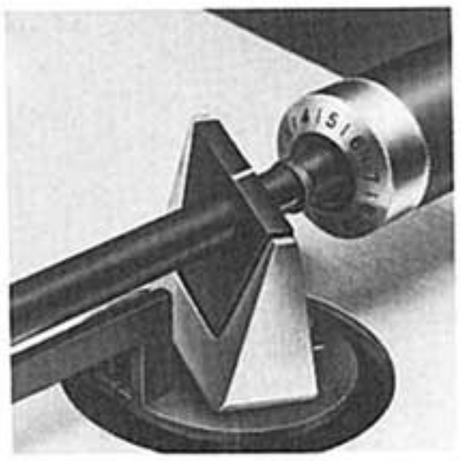


Stylus force
The tonearm is factory adjusted to the recommended stylus pressure of 15 mN or 1.5 grams for the MMC 10 E.

Checking adjustment of the counterweight
Read the stylus pressure on the dial. Graduations of 1/10 gram are shown on the counterweight (read top digit).



First set static balance. Remove the stylus guard and rotate the counterweights so "0" appears on the dial. The tonearm should now "float" horizontally.

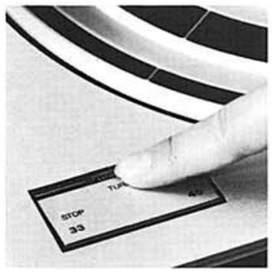


If the rotatable dial does not show "0", hold the black portion of the counterweight with your right hand and at the same time turn the dial with your left hand until "0" points upward.
Now rotate the counterweight to the recommended stylus pressure by grasping the black portion (MMC 10, 1.5 turn).

OPERATION
12" records: Press 33
7" records: Press 45
10" records: Move the pickup arm in to the first groove and press 33.

STOP
To stop before the records has finished, press STOP.

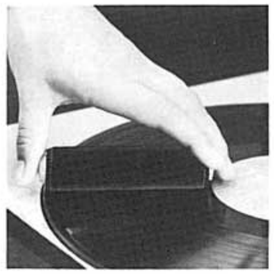
PAUSE
Pause: Press PAUSE.
To continue palying from the same point, again press 33 or 45.
You may also move the pickup to another passage and again press 33 or 45.



Special 7" records, 33 rpm:
Move the pickup arm to the first groove and press 33.

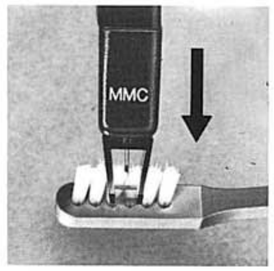
Records with Large Center Holes
Place the adaptor which is supplied on the record spindle before putting on the record.

Cleaning of records
Pressing TURN will cause the turntable to rotate without activating the tonearm.



Care of Discs
In designing the Beogram, every effort has been made to ensure that your records can be played many times with no deterioration of sound quality.
You can further minimize wear by avoiding dust particles and finger prints on your records.
Keep the dust cover of your Beogram closed while playing records.

MAINTENANCE



Cartridge
It is recommended that the stylus is cleaned regularly, to maintain optimum sound quality, at the same time protecting your valuable records and insuring long life of the stylus.

Removal of the pickup cartridge
Hold the tonearm firmly with one hand while carefully moving the cartridge from side to side and pulling outwards with the other.

Metal surfaces
The chassis deck and platter can usually be kept clean with a dry cloth.
Be careful not to damage the stylus. Put the stylus guard in place before cleaning metal surfaces, and before moving or transporting your record player.

Any grease stains on the metal surfaces can be removed with a soft cloth moistened in a cold or lukewarm solution of detergent in water.
Thereafter wipe throughly with a dry cloth.

Dust cover
Repeated cleaning with a dry cloth will cause the dust cover to pick up a static charge. It is advisable to use detergent once in a while, when cleaning the dust cover.

Teak and Rosewood
If the wood surface seem grey and dry you may apply a thin film of ordinary furniture oil, though not more than twice a year.

Blond Oak
The removal of dark spots requires acetone. Do not use oil under any circumstances - even non-oil detergent or non-oil wax can cause discoloration of the surface.
Should more extensive treatment or repairs become necessary, consult your dealer.

Guarantee
In other countries where Bang & Olufsen products are officially marketed any authorized Bang & Olufsen dealer will repair any defect or malfunction in the product free of charge providing that:

The product is »in warranty« under the terms of duration stated in the Limited Warranty.
The defect or malfunction was not caused by damage while in possession of the consumer due to incorrect installation, maladjustment, misuse, negligence or servicing by the consumer, or by a failure on the part of the consumer to provide reasonable and necessary maintenance.

In order to obtain »in warranty« service outside the US, it is essential to obtain a **verification of purchase** from Bang & Olufsen of America, Inc. If you wish to receive a **verification of purchase** please mail your request to:
International Guarantee Department
Bang & Olufsen of America, Inc.
515 Busse Road
Elk Grove Village, Illinois 60007
Your request must be accompanied by your sales receipt, which must contain product sales designation and type, serial number and purchase date.

TECHNICAL DATA	BEOGRAM 1602
Type No.	**5712**
Speeds/control range	33 - 45 rpm/> ±3%
Wow and flutter DIN	< ±0.09%
Wow and flutter, WRMS	< ±0.045%
Rumble weighted	> 62 dB
Rumble unweighted	> 42 dB
Motor/drive system	Servocontrolled DC/belt
Power supply (50-60Hz)	120V
Consumption	8W
Dimensions W x H x D/weight	17½ x 3½ x 13 in./13.2 Lbs

PICKUPS	MMC 10 E
Recommended tracking force	15 mN/1.5 gram
Frequency range	20 - 20,000 Hz
Channel separation 1000 Hz	> 20 dB
Channel difference	< 2 dB
Stylus	Elliptical diamond 5 x 17 µm
ETM	0.5 mg
Compliance	20 µm/mN
Sensitivity mV/cm/s RMS	> 0.6 mV/47 kohms
Output 5 cm lateral RMS	> 2.12 mV/47 kohms

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